



Naval Health Research Center Meningococcal Disease Surveillance Quarterly Report



Supported by the GEIS Division of the Armed Forces Health Surveillance Branch

3 January 2017

Program Objective

The Naval Health Research Center (NHRC) participates with the Armed Forces Health Surveillance Branch & the Navy & Marine Corps Public Health Center to confirm and characterize suspected cases of meningococcal disease.

If a suspected case of meningococcal disease presents at your MTF, please provide NHRC with a specimen.



Four Cases Recorded in October and November of 2016

After more than two years with no reported active-duty meningococcal disease cases, a case in September was followed by two in October and two in November, bringing the total number of cases in 2016 to five.

All of the individuals had been vaccinated with Menactra, but only the September case was confirmed to involve a serogroup covered by the vaccine. Neither of the October cases could be serogrouped, and the November cases, which were related by physical contact, were both serogroup B.

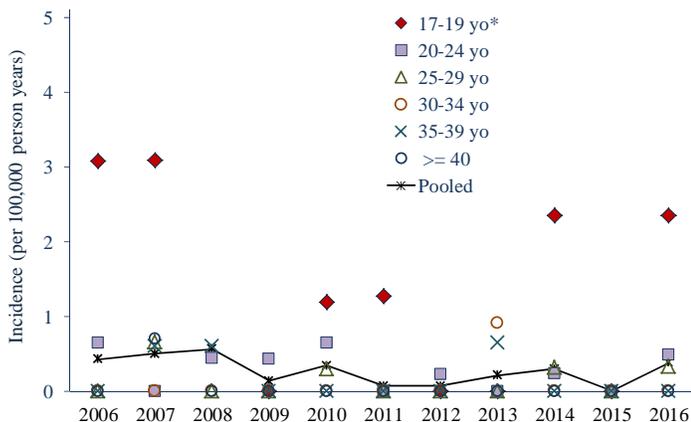
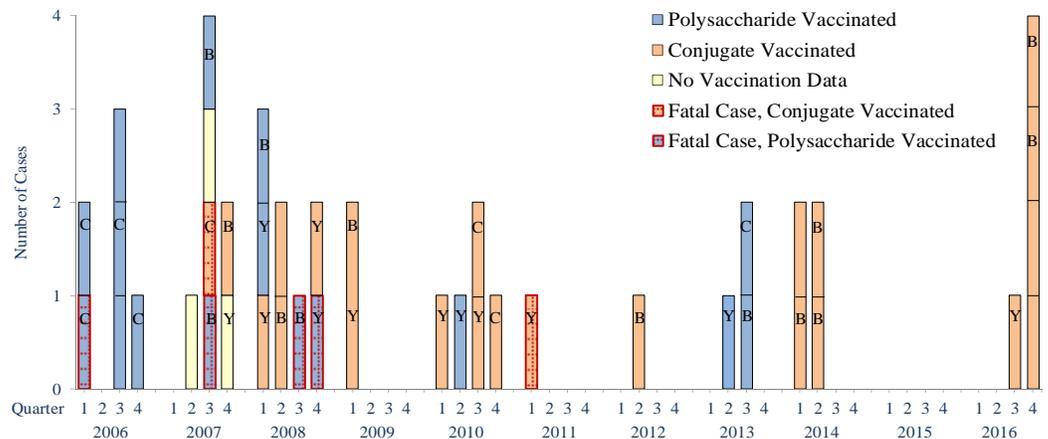
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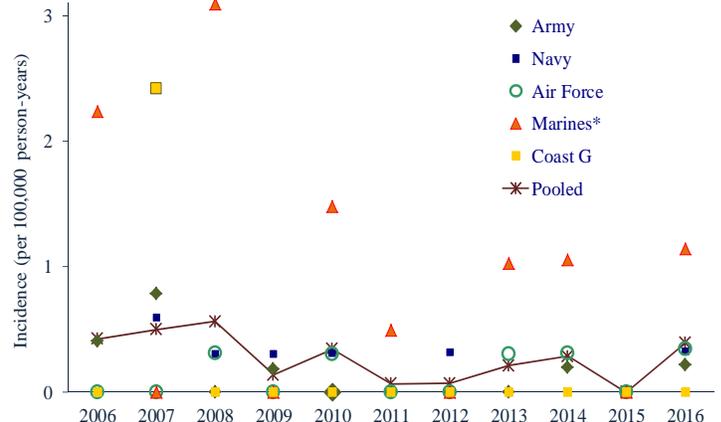
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Active-Duty Confirmed and Probable Cases Since 2006



Meningococcal Incidence in Active Duty by Age Range.

*The incidence is significantly higher in the <20 year-old group than the others. 2016 incidence uses estimated population size.



Meningococcal Incidence in Active Duty by Branch.

*The incidence is significantly higher in the Marines than in the other branches. 2016 incidence uses estimated population size.

Data from Armed Forces Health Surveillance Branch (AFHSB), Navy and Marine Corps Public Health Center (NMCPHC), and NHRC.



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NHRC Meningococcal Disease Surveillance

Variable	'06	'07	'08	'09	'10	'11	'12	'13	'14	'15	2016				Total	Total	Incidence
											Q1	Q2	Q3	Q4	'06-'16	'12-'16	'12-'16
Serogroup																	
A																	
B							1	1	3					2	14	7	
C	4	1	3	1	2			1							8	1	
W-135																	
X																	
Y		2	4	1	3	1		1					1		13	2	
Unknown	2	1	1						1					2	7	3	
Mortality Status																	
Fatal	1	2	2			1									6	0	0% of all
Not Fatal	5	5	6	2	5		1	3	4				1	4	36	13	100% of all
Immunizations^a																	
Polysaccharide	6	2	4		1			3							16	3	
Conjugate		2	4	2	4	1	1		4				1	4	23	10	
Unknown		3													3		
Location																	
OCONUS	2	2	2		1				1						8	1	
Midwest				1											1		
Southeast	3	2	2	1	2	1			1					2	14	3	
Southwest	1	2	3		2		1	2	2					2	15	7	
Northeast		1	1					1					1		4	2	
Service																	
Air Force			1		1			1	1					1	5	3	0.190
Army	2	4		1	1				1					1	10	2	0.079
Coast Guard		1													1		0.000
Marines	4		6		3	1		2	2					2	20	6	0.638
Navy		2	1	1			1						1		6	2	0.126
AD status																	
Recruit ^b	3	1	5		2	1			1				1	2	16	4	2.270
Enlisted	3	6	3	2	3		1	2	3					2	25	8	0.175
Officer								1							1	1	0.111
Gender																	
F			1	1	2	1			1					1	7	2	0.198
M	6	7	7	1	3		1	3	3				1	3	35	11	0.190
Race/Ethnicity																	
Asian			1						1						2	1	0.340
Black	1	3	1		3	1			2				1		12	3	0.245
Hispanic			1				1	1						1	4	3	0.381
White	5	3	5	1	2			2	1					2	21	5	0.119
Unk/Other		1		1										1	3	1	0.487
Age																	
17-19	3	3	5		1	1			2					2	17	4	0.947
20-24	3		2	2	3		1		1				1	1	14	4	0.190
25-29		2			1				1					1	5	2	0.124
30-34								2							2	2	0.184
>=35		2	1					1							4	1	0.068
Total Cases	6	7	8	2	5	1	1	3	4	0	0	0	0	1	4	42	13
Incidence	0.426	0.499	0.565	0.138	0.343	0.069	0.070	0.213	0.285	0	0.392	0.272	0.190				

Data Sources: NMCPHC EpiData Center, Armed Forces Health Surveillance Branch, and NHRC.

^aThe counts here do not imply vaccine failures.

^bIncludes 2 service academy students.

Specimens may be shipped to

Attn: Specimen Receiving

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